

# Audio Control & Instrumentation Cable, 2 to 32C, 18AWG, Overall Screen & LSZH-HFFR Sheath

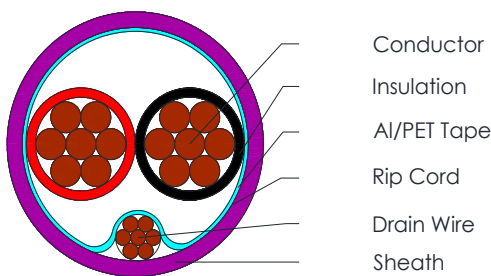


C5491, C5492, C5493, C5494, C5495, C5496, C5497, C5498, C5499, C5500, C5501, C5502, C5503,  
C5504, C5505

## Applications

Screened Multi-Conductor cable suitable for Audio, Control, Instrumentation and Building Management Systems (BMS)

## Cross Section Drawing



- Conductor
- Insulation
- Al/PET Tape
- Rip Cord
- Drain Wire
- Sheath

## Design

Unit	Properties
Conductor	N x Bare Copper wire, 18AWG flexible
Insulation	Polyolefin Core 1: Black Core 2: Red Core 3: White Core 4: Green Core 5: Brown Core 6: Blue Core 7: Orange Core 8: Yellow Core 9: Purple Core 10: Grey Core 11: Pink Core 12: Tan Black Color with white number identification for cores more than 12
Drain wire	24 AWG (7 x 32) Tinned Copper
Screen	Aluminium/Polyester 100% Coverage
Rip cord	Nylon yarn
Sheath	Halogen Free Flame-Retardant (LSZH-HFFR) Standard colour: Purple
Standard Put Up Length	305 meters

\*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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## Physical Characteristics

Part Number	C5491	C5492	C5493	C5494	C5495	C5496	C5497	C5498	C5499	C5500	C5501	C5502	C5503	C5504	C5505
No of cores	2	3	4	5	6	7	8	9	10	11	12	16	20	24	32
Conductor Construction (AWG)	18(7 x 26)														
Nom. Radial Thickness Insulation(mm)	0.25														
Nom. Radial Thickness Sheath(mm)	0.65														0.80
Nom. Overall Diameter(mm)	4.7	5.0	5.4	6.0	6.1	6.3	6.9	7.5	8.0	8.2	8.3	9.1	9.9	11.3	12.7
Operating Temperature (°C)	-25 to +75														
Max. Recommended Pulling Tension (N)	200	299	399	500	600	620	797	955	999	1095	1200	1600	2000	2400	3200
Min. Bend Radius (install)(mm)	47	49	46	57	61	62	66	67	77	79	80	92	100	117	130
Nominal Cable Weight (kg/km)	32.6	41.8	51.7	61.5	71.3	79.8	89.6	99.9	109.8	119.0	127.4	163.9	210	257	336

## Electrical Characteristics at 20°C

Part Number	C5491	C5492	C5493	C5494	C5495	C5496	C5497	C5498	C5499	C5500	C5501	C5502	C5503	C5504	C5505
No of core	2	3	4	5	6	7	8	9	10	11	12	16	20	24	32
Max. DC Resistance Conductor ( $\Omega$ /km)	22.7														
Max. DC Resistance Screen ( $\Omega$ /km)	78.5														
Capacitance conductor to conductor (pF/m)	95	90	75	75	75	75	75	75	75	75	75	75	75	75	75
Capacitance cond. To Rest (pF/m)	175	170	160	145	140	140	140	140	140	140	140	140	140	140	140
Nominal Inductance ( $\mu$ H/m)	0.5														
Max. Recommended Current at 25°C (Amps)	5	5	4	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.0	3.0	3.0	3.0
Max. Operating Voltage (Vrms)	300														

## Reference Standards

(BS) EN 50290-2	IEC 60332-3-24
IEC 60228	IEC 61034-1&-2
RoHS directives	IEC 60754-1&-2